

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A method for the production of transgenic avians, the method comprising the step of using a lentivirus vector system to deliver exogenous genetic material to avian embryonic cells or cells of the testes.
2. (original) A method as claimed in claim 1 wherein the lentivirus vector system includes a lentivirus transgene construct in a form which is capable of being delivered to and integrated with the genome of avian embryonic cells or cells of the testes.
3. (original) A method as claimed in claim 2 wherein the lentivirus construct is injected into the subgerminal cavity of the contents of an opened egg which is then allowed to develop.
4. (original) A method as claimed in claim 2 wherein the construct is injected directly into the sub-blastodermal cavity of an egg.
5. (currently amended) A method as claimed in ~~any of the preceding claims~~ claim 2 wherein the ~~vector~~ lentivirus construct transduces germ cells at high efficiency.
6. (currently amended) A method as claimed in ~~any of the preceding claims~~ claim 1 wherein the genetic material encodes a protein.
7. (currently amended) A transgenic avian produced by a method as claimed in ~~any of the preceding claims~~ claim 1.
8. (original) A transgenic avian and subsequent transgenic offspring produced as the offspring of a transgenic avian as claimed in claim 7.

9. (currently amended) A method for the production of an heterologous protein in an avian ~~avians~~, the method comprising the step of delivering genetic material encoding the protein within a lentivirus vector construct to avian embryonic cells so as to create a transgenic ~~avian~~ avian which expresses the genetic material in its tissues.
10. (currently amended) A method as claimed in claim 9 wherein the transgenic avian expresses the gene in ~~the~~ its oviduct so that the translated protein becomes incorporated into eggs.
11. (original) A method as claimed in claim 10 further comprising the step of isolating the protein from the eggs.
12. (canceled)
13. (canceled)
14. (currently amended) ~~Use A method as claimed in claim 13~~ 9 wherein the transgenic avian expresses the heterologous protein in ~~of lentivirus vector construct for the expression of heterologous proteins in specific tissues, preferably egg white or yolk.~~
15. (currently amended) ~~Use A method as claimed in any of claims 12 to 14~~ claim 1 wherein the lentivirus is ~~chosen~~ selected from the group consisting of EIAV, HIV, SIV, DIV and FIV.
16. (currently amended) ~~Use A method as claimed in any of claims 12 to 15~~ claim 2 wherein the construct includes suitable enhancer promoter elements for subsequent production of protein.
17. (currently amended) ~~Use A method as claimed in any of claims 12 to 16~~ claim 2 wherein particles of the vector construct ~~particles~~ are packaged to produce a vector with an envelope.

18. (original) A method of determining the likelihood of expression of a protein in a transgenic avian, the method comprising the step of detecting expression of the protein in oviduct cells in vitro.
19. (new) A method as claimed in claim 9 wherein expression of the genetic material is tissue-specific.
20. (new) A method as claimed in claim 9 wherein the transgenic avian expresses the heterologous protein in egg white or yolk.
21. (new) A method as claimed in claim 9 wherein the lentivirus is selected from the group consisting of EIAV, HIV, SIV, DIV and FIV.
22. (new) A method as claimed in claim 9 wherein the construct includes suitable enhancer promoter elements for subsequent production of protein.
23. (new) A method as claimed in claim 9 wherein particles of the vector construct are packaged to produce a vector with an envelope.